



Actual Wellpath Report

BELLA FEDERAL 25C-7HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 BELLA FEDERAL 25C-7HZ (2152'FSL & 2429'FWL, SEC.08)
Area	COLORADO	Well	BELLA FEDERAL 25C-7HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	BELLA FEDERAL 25C-7HZ AWB
Facility	SEC.08-T3N-R66W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.0.0
North Reference	True	User	Robiale01
Scale	0.999957	Report Generated	26/Jul/2013 at 12:18
Convergence at slot	n/a	Database/Source file	WA_ANADARKO/BELLA_FEDERAL_25C-7HZ_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	173.06	-792.35	3194855.08	1330292.10	40°14'16.602"N	104°48'07.301"W
Facility Reference Pt			3195648.74	1330125.32	40°14'14.892"N	104°47'57.084"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	ENSIGN 138 (RKB) to Facility Vertical Datum	4876.00ft
Horizontal Reference Pt	Slot	ENSIGN 138 (RKB) to Mean Sea Level	4876.00ft
Vertical Reference Pt	ENSIGN 138 (RKB)	ENSIGN 138 (RKB) to Mud Line at Slot (SLOT#08 BELLA FEDERAL 25C-7HZ (2152'FSL & 2429'FWL, SEC.08))	4876.00ft
MD Reference Pt	ENSIGN 138 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	272.33°



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	BELLA FEDERAL 25C-7HZ AWP
Facility	SEC.08-T3N-R66W		

WELLPATH DATA (115 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	359.590	0.00	0.00	0.00	0.00	40°14'16.602"N	104°48'07.301"W	0.00	
13.00	0.000	359.590	13.00	0.00	0.00	0.00	40°14'16.602"N	104°48'07.301"W	0.00	TIE-ON
113.00	0.070	359.590	113.00	0.00	0.06	0.00	40°14'16.603"N	104°48'07.301"W	0.07	BEGIN GYRO SURVEYS
213.00	0.090	261.260	213.00	0.08	0.11	-0.08	40°14'16.603"N	104°48'07.302"W	0.12	
313.00	0.160	235.720	313.00	0.27	0.02	-0.27	40°14'16.602"N	104°48'07.305"W	0.09	
413.00	0.300	256.910	413.00	0.64	-0.12	-0.64	40°14'16.601"N	104°48'07.309"W	0.16	
513.00	0.090	186.530	513.00	0.89	-0.26	-0.91	40°14'16.599"N	104°48'07.313"W	0.28	
613.00	0.090	124.680	613.00	0.83	-0.38	-0.85	40°14'16.598"N	104°48'07.312"W	0.09	
713.00	0.160	58.420	713.00	0.65	-0.35	-0.67	40°14'16.599"N	104°48'07.310"W	0.15	
760.00	0.240	303.620	760.00	0.68	-0.26	-0.69	40°14'16.599"N	104°48'07.310"W	0.72	TIE-INTO GYRO SURVEYS
931.00	0.100	284.200	931.00	1.13	-0.03	-1.14	40°14'16.602"N	104°48'07.316"W	0.09	BEGIN BHI MWD+IFR SURVEYS
1022.00	0.300	263.000	1022.00	1.45	-0.04	-1.45	40°14'16.602"N	104°48'07.320"W	0.23	
1114.00	1.700	47.700	1113.98	0.71	0.85	-0.68	40°14'16.610"N	104°48'07.310"W	2.12	
1205.00	4.100	39.000	1204.86	-2.19	4.29	2.37	40°14'16.644"N	104°48'07.270"W	2.67	
1296.00	6.400	37.600	1295.47	-7.06	10.84	7.51	40°14'16.709"N	104°48'07.204"W	2.53	
1387.00	8.100	39.400	1385.74	-13.86	19.81	14.67	40°14'16.798"N	104°48'07.112"W	1.88	
1478.00	10.000	40.900	1475.61	-22.65	30.74	23.92	40°14'16.906"N	104°48'06.993"W	2.10	
1591.00	11.500	38.100	1586.62	-35.35	47.02	37.29	40°14'17.067"N	104°48'06.820"W	1.41	
1682.00	11.400	38.500	1675.81	-45.96	61.20	48.49	40°14'17.207"N	104°48'06.676"W	0.14	
1772.00	11.200	38.600	1764.07	-56.38	74.99	59.48	40°14'17.343"N	104°48'06.534"W	0.22	
1864.00	12.000	38.700	1854.19	-67.34	89.43	71.03	40°14'17.486"N	104°48'06.385"W	0.87	
1963.00	11.500	38.800	1951.11	-79.31	105.16	83.65	40°14'17.641"N	104°48'06.222"W	0.51	
2054.00	10.600	38.200	2040.42	-89.60	118.81	94.51	40°14'17.776"N	104°48'06.082"W	1.00	
2145.00	11.800	37.900	2129.69	-99.92	132.73	105.40	40°14'17.914"N	104°48'05.942"W	1.32	
2235.00	11.000	45.200	2217.92	-111.11	146.04	117.15	40°14'18.045"N	104°48'05.790"W	1.83	
2326.00	11.300	46.000	2307.20	-123.18	158.35	129.72	40°14'18.167"N	104°48'05.628"W	0.37	
2409.00	11.400	41.900	2388.58	-134.02	170.10	141.05	40°14'18.283"N	104°48'05.482"W	0.98	
2500.00	11.800	44.300	2477.72	-145.97	183.46	153.56	40°14'18.415"N	104°48'05.321"W	0.69	
2590.00	11.700	41.600	2565.83	-157.90	196.87	166.04	40°14'18.547"N	104°48'05.160"W	0.62	
2682.00	12.700	40.600	2655.75	-170.07	211.52	178.82	40°14'18.692"N	104°48'04.995"W	1.11	
2773.00	12.800	39.700	2744.51	-182.38	226.87	191.77	40°14'18.844"N	104°48'04.828"W	0.24	
2865.00	11.700	39.400	2834.41	-194.19	241.92	204.20	40°14'18.993"N	104°48'04.668"W	1.20	
2956.00	11.600	38.900	2923.54	-205.20	256.17	215.80	40°14'19.133"N	104°48'04.518"W	0.16	
3047.00	10.200	41.100	3012.90	-215.70	269.36	226.84	40°14'19.264"N	104°48'04.376"W	1.60	
3138.00	8.500	42.600	3102.68	-225.09	280.39	236.69	40°14'19.373"N	104°48'04.249"W	1.89	
3230.00	7.900	41.300	3193.74	-233.46	290.14	245.47	40°14'19.469"N	104°48'04.136"W	0.68	
3325.00	7.000	43.400	3287.94	-241.37	299.25	253.75	40°14'19.559"N	104°48'04.029"W	0.99	
3420.00	6.200	44.300	3382.31	-248.61	307.13	261.31	40°14'19.637"N	104°48'03.931"W	0.85	
3514.00	5.800	52.000	3475.80	-255.62	313.69	268.60	40°14'19.702"N	104°48'03.837"W	0.96	
3609.00	4.300	38.000	3570.43	-261.36	319.45	274.58	40°14'19.759"N	104°48'03.760"W	2.03	
3703.00	2.400	46.900	3664.26	-264.80	323.57	278.18	40°14'19.799"N	104°48'03.714"W	2.09	
3798.00	1.100	357.600	3759.22	-266.12	325.84	279.60	40°14'19.822"N	104°48'03.696"W	1.98	
3894.00	0.400	309.400	3855.21	-265.77	326.98	279.30	40°14'19.833"N	104°48'03.700"W	0.92	
3989.00	0.500	315.100	3950.21	-265.20	327.48	278.75	40°14'19.838"N	104°48'03.707"W	0.12	
4083.00	1.100	227.100	4044.20	-264.27	327.16	277.80	40°14'19.835"N	104°48'03.719"W	1.27	



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Area	COLORADO	Well	BELLA FEDERAL 25C-7HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	BELLA FEDERAL 25C-7HZ AWP
Facility	SEC.08-T3N-R66W		

WELLPATH DATA (115 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4179.00	0.900	224.600	4140.19	-263.11	325.99	276.60	40°14'19.823"N	104°48'03.734"W	0.21	
4560.00	1.800	175.700	4521.09	-261.79	317.89	274.94	40°14'19.743"N	104°48'03.756"W	0.36	
4656.00	0.800	193.000	4617.06	-261.84	315.74	274.91	40°14'19.722"N	104°48'03.756"W	1.11	
5035.00	1.400	286.700	4996.02	-256.86	314.49	269.88	40°14'19.710"N	104°48'03.821"W	0.44	
5129.00	0.300	24.800	5090.01	-255.85	315.04	268.88	40°14'19.715"N	104°48'03.834"W	1.57	
5508.00	0.300	240.000	5469.00	-255.39	315.45	268.44	40°14'19.719"N	104°48'03.840"W	0.15	
5887.00	0.700	196.700	5847.99	-253.97	312.73	266.91	40°14'19.692"N	104°48'03.859"W	0.14	
6266.00	0.100	200.600	6226.98	-253.30	310.21	266.13	40°14'19.667"N	104°48'03.869"W	0.16	
6678.00	0.400	276.100	6638.98	-251.75	310.02	264.57	40°14'19.666"N	104°48'03.889"W	0.09	
6741.00	1.300	257.800	6701.97	-250.84	309.90	263.66	40°14'19.664"N	104°48'03.901"W	1.47	
6835.00	10.800	264.700	6795.34	-241.05	308.85	253.82	40°14'19.654"N	104°48'04.028"W	10.12	
6930.00	20.000	263.700	6886.83	-216.12	306.24	228.76	40°14'19.628"N	104°48'04.351"W	9.69	
7025.00	27.200	261.400	6973.83	-178.69	301.21	191.09	40°14'19.579"N	104°48'04.837"W	7.64	
7119.00	37.200	266.000	7053.28	-129.22	296.00	141.37	40°14'19.527"N	104°48'05.478"W	10.95	
7213.00	45.600	268.200	7123.73	-67.37	292.96	79.34	40°14'19.497"N	104°48'06.278"W	9.07	
7309.00	48.500	269.700	7189.14	2.77	291.69	9.10	40°14'19.484"N	104°48'07.184"W	3.23	
7404.00	52.600	273.700	7249.50	76.08	293.94	-64.18	40°14'19.507"N	104°48'08.129"W	5.40	
7451.00	57.500	275.700	7276.42	114.56	297.12	-102.56	40°14'19.538"N	104°48'08.623"W	10.99	
7499.00	62.800	277.000	7300.30	156.07	301.73	-143.92	40°14'19.584"N	104°48'09.157"W	11.29	
7546.00	68.300	276.700	7319.75	198.70	306.83	-186.38	40°14'19.634"N	104°48'09.704"W	11.72	
7594.00	72.500	275.900	7335.85	243.80	311.79	-231.32	40°14'19.683"N	104°48'10.284"W	8.89	
7641.00	74.400	275.400	7349.24	288.78	316.22	-276.15	40°14'19.727"N	104°48'10.862"W	4.17	
7688.00	79.700	274.900	7359.77	334.51	320.33	-321.75	40°14'19.767"N	104°48'11.450"W	11.32	
7735.00	83.200	273.500	7366.75	380.96	323.73	-368.10	40°14'19.801"N	104°48'12.047"W	8.01	
7783.00	85.900	272.400	7371.31	428.73	326.19	-415.81	40°14'19.825"N	104°48'12.663"W	6.07	
7835.00†	88.143	272.043	7374.01	480.66	328.20	-467.70	40°14'19.845"N	104°48'13.332"W	4.37	7" CASING POINT
7885.00	90.300	271.700	7374.69	530.65	329.83	-517.66	40°14'19.861"N	104°48'13.976"W	4.37	
7979.00	90.000	271.400	7374.45	624.64	332.38	-611.63	40°14'19.886"N	104°48'15.188"W	0.45	
8074.00	89.900	270.300	7374.53	719.61	333.79	-706.62	40°14'19.900"N	104°48'16.413"W	1.16	
8170.00	90.200	268.400	7374.44	815.47	332.70	-802.61	40°14'19.890"N	104°48'17.650"W	2.00	
8265.00	90.500	267.300	7373.86	910.18	329.13	-897.54	40°14'19.854"N	104°48'18.874"W	1.20	
8360.00	90.700	267.500	7372.87	1004.82	324.82	-992.43	40°14'19.812"N	104°48'20.098"W	0.30	
8455.00	89.800	267.100	7372.45	1099.45	320.35	-1087.33	40°14'19.767"N	104°48'21.322"W	1.04	
8551.00	89.000	266.600	7373.46	1195.01	315.07	-1183.17	40°14'19.715"N	104°48'22.558"W	0.98	
8646.00	88.800	266.300	7375.28	1289.49	309.19	-1277.97	40°14'19.657"N	104°48'23.780"W	0.38	
8741.00	89.900	267.500	7376.36	1384.05	304.06	-1372.83	40°14'19.606"N	104°48'25.003"W	1.71	
8836.00	89.900	267.400	7376.53	1478.71	299.83	-1467.73	40°14'19.564"N	104°48'26.227"W	0.11	
8932.00	88.800	266.600	7377.62	1574.29	294.80	-1563.59	40°14'19.515"N	104°48'27.463"W	1.42	
9027.00	89.800	267.600	7378.78	1668.88	290.00	-1658.46	40°14'19.467"N	104°48'28.686"W	1.49	
9122.00	90.700	268.200	7378.36	1763.59	286.52	-1753.39	40°14'19.433"N	104°48'29.910"W	1.14	
9217.00	91.200	268.300	7376.79	1858.34	283.62	-1848.34	40°14'19.404"N	104°48'31.135"W	0.54	
9312.00	90.200	267.600	7375.63	1953.05	280.22	-1943.27	40°14'19.370"N	104°48'32.359"W	1.28	
9406.00	90.600	267.800	7374.97	2046.75	276.45	-2037.19	40°14'19.333"N	104°48'33.570"W	0.48	
9500.00	89.300	267.100	7375.05	2140.40	272.26	-2131.09	40°14'19.292"N	104°48'34.781"W	1.57	
9594.00	89.400	266.900	7376.12	2233.99	267.35	-2224.96	40°14'19.243"N	104°48'35.991"W	0.24	



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9690.00	89.400	266.700	7377.12	2329.54	261.99	-2320.80	40°14'19.190"N	104°48'37.227"W	0.21	
9784.00	89.500	266.500	7378.03	2423.06	256.41	-2414.63	40°14'19.135"N	104°48'38.437"W	0.24	
9879.00	89.400	266.300	7378.94	2517.55	250.45	-2509.44	40°14'19.076"N	104°48'39.659"W	0.24	
9974.00	90.100	267.600	7379.35	2612.13	245.39	-2604.30	40°14'19.026"N	104°48'40.883"W	1.55	
10069.00	90.900	268.100	7378.52	2706.83	241.83	-2699.23	40°14'18.990"N	104°48'42.107"W	0.99	
10164.00	90.500	268.000	7377.36	2801.56	238.60	-2794.17	40°14'18.958"N	104°48'43.331"W	0.43	
10259.00	89.000	267.800	7377.78	2896.27	235.12	-2889.10	40°14'18.924"N	104°48'44.555"W	1.59	
10353.00	89.600	268.400	7378.93	2990.01	232.00	-2983.04	40°14'18.893"N	104°48'45.766"W	0.90	
10447.00	90.300	268.800	7379.01	3083.81	229.70	-3077.01	40°14'18.870"N	104°48'46.978"W	0.86	
10543.00	90.900	269.100	7378.00	3179.64	227.94	-3172.99	40°14'18.853"N	104°48'48.216"W	0.70	
10637.00	91.000	268.900	7376.44	3273.46	226.30	-3266.96	40°14'18.836"N	104°48'49.427"W	0.24	
10732.00	90.500	268.400	7375.20	3368.26	224.07	-3361.93	40°14'18.814"N	104°48'50.652"W	0.74	
10827.00	88.600	267.400	7375.95	3462.97	220.58	-3456.86	40°14'18.779"N	104°48'51.876"W	2.26	
10923.00	88.700	268.200	7378.21	3558.64	216.90	-3552.76	40°14'18.743"N	104°48'53.112"W	0.84	
11018.00	89.500	268.300	7379.70	3653.39	214.00	-3647.70	40°14'18.714"N	104°48'54.337"W	0.85	
11112.00	89.200	268.000	7380.77	3747.13	210.97	-3741.65	40°14'18.684"N	104°48'55.548"W	0.45	
11207.00	89.800	267.900	7381.60	3841.85	207.57	-3836.58	40°14'18.650"N	104°48'56.772"W	0.64	
11302.00	90.500	267.800	7381.35	3936.56	204.00	-3931.51	40°14'18.615"N	104°48'57.996"W	0.74	
11397.00	89.600	268.100	7381.27	4031.28	200.61	-4026.45	40°14'18.581"N	104°48'59.221"W	1.00	
11490.00	90.100	268.200	7381.51	4124.03	197.60	-4119.40	40°14'18.551"N	104°49'00.419"W	0.55	
11585.00	89.300	268.900	7382.01	4218.82	195.20	-4214.37	40°14'18.527"N	104°49'01.644"W	1.12	
11680.00	89.200	268.700	7383.25	4313.63	193.21	-4309.34	40°14'18.508"N	104°49'02.868"W	0.24	
11775.00	90.200	268.900	7383.75	4408.45	191.22	-4404.32	40°14'18.488"N	104°49'04.093"W	1.07	
11893.00	90.500	268.400	7383.03	4526.20	188.44	-4522.28	40°14'18.460"N	104°49'05.614"W	0.49	LAST BHI MWD+IFR SURVEY
11957.00	90.500	268.400	7382.47	4590.05	186.65	-4586.25	40°14'18.442"N	104°49'06.439"W	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: BELLA FEDERAL 25C-7HZ AWB Ref Wellpath: BELLA FEDERAL 25C-7HZ AWP									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	13.00	910.00	897.00	13.00	910.00	0.00	0.00	-0.04	-1.10
9.625in Casing Surface	13.00	910.00	897.00	13.00	910.00	0.00	0.00	-0.04	-1.10
8.75in Open Hole	910.00	7846.00	6936.00	910.00	7374.32	-0.04	-1.10	328.59	-478.69
7in Casing Intermediate	13.00	7835.00	7822.00	13.00	7374.01	0.00	0.00	328.20	-467.70
6.125in Open Hole	7846.00	11957.00	4111.00	7374.32	7382.47	328.59	-478.69	186.65	-4586.25



Actual Wellpath Report

BELLA FEDERAL 25C-7HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 BELLA FEDERAL 25C-7HZ (2152'FSL & 2429'FWL, SEC.08)
Area	COLORADO	Well	BELLA FEDERAL 25C-7HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	BELLA FEDERAL 25C-7HZ AWB
Facility	SEC.08-T3N-R66W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
BELLA FEDERAL SECTION 7 LINES		0.00	0.00	0.00	3194855.08	1330292.10	40°14'16.602"N	104°48'07.301"W	polygon
BELLA FEDERAL SECTION 8 LINES		0.00	0.00	0.00	3194855.08	1330292.10	40°14'16.602"N	104°48'07.301"W	polygon
EISENACH & PRESTON 8-7K (150' RADIUS)		0.00	1116.82	832.76	3195678.98	1331415.38	40°14'27.638"N	104°47'56.563"W	circle
MILLER ESTATES 8-12K (150' RADIUS)		0.00	-117.72	-1769.37	3193086.77	1330160.46	40°14'15.438"N	104°48'30.116"W	circle
MILLER ESTATES 8-13K (150' RADIUS)		0.00	-1670.75	-1602.23	3193266.12	1328608.87	40°14'00.091"N	104°48'27.960"W	circle
BELLA FEDERAL 25C-7HZ BHL ON PLAT REV-1 (2425'FSL & 2183'FEL, SEC.07)		7366.00	218.65	-4611.58	3190242.12	1330474.43	40°14'18.758"N	104°49'06.766"W	point
BELLA FEDERAL 25C-7HZ LAND BOX		7400.00	0.00	0.00	3194855.08	1330292.10	40°14'16.602"N	104°48'07.301"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: BELLA FEDERAL 25C-7HZ AWB Ref Wellpath: BELLA FEDERAL 25C-7HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	760.00	Generic gyro - continuous (Standard)	MS ENERGY GYRODATA SURVEYS <113-760>	BELLA FEDERAL 25C-7HZ AWB
760.00	7783.00	NaviTrak (IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <931-7783>	BELLA FEDERAL 25C-7HZ AWB
7783.00	11893.00	OnTrak (IFR)	BHI MWD+IFR SURVEYS 6 1/8" HOLE <7885-11893>	BELLA FEDERAL 25C-7HZ AWB
11893.00	11957.00	Blind Drilling (std)	Projection to bit	BELLA FEDERAL 25C-7HZ AWB



Actual Wellpath Report

BELLA FEDERAL 25C-7HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 BELLA FEDERAL 25C-7HZ (2152'FSL & 2429'FWL, SEC.08)
Area	COLORADO	Well	BELLA FEDERAL 25C-7HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	BELLA FEDERAL 25C-7HZ AWB
Facility	SEC.08-T3N-R66W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	359.590	13.00	TIE-ON
113.00	0.070	359.590	113.00	BEGIN GYRO SURVEYS
760.00	0.240	303.620	760.00	TIE-INTO GYRO SURVEYS
931.00	0.100	284.200	931.00	BEGIN BHI MWD+IFR SURVEYS
7835.00	88.143	272.043	7374.01	7" CASING POINT
11893.00	90.500	268.400	7383.03	LAST BHI MWD+IFR SURVEY
11957.00	90.500	268.400	7382.47	PROJECTION TO BIT